

# TUFTED SURFACE COVERING AND METHOD

## Abstract of Disclosure

The tufted surface covering includes a base formed from particles of a thermosetting polymer compound mixed with a particle binding agent causing a portion of the particles to bind together to form a self supporting web. The base is tufted with a tufting material. Thermosetting vulcanized natural and/or synthetic rubber compounds are employed. The polymer layer is tufted with a tufting material and heated to a temperature of from about 110 ° C to about 220 ° C at an elevated pressure of up to two tons per square inch, to cause the particles to bind together at elevated temperature and pressure to anchor and seal the tufts in place. Cross-linking agents and polar polymer containing compounds may be employed as particle binding agents. In another aspect of the invention, a second layer of particles of a thermosetting polymer mixed with a particle binding agent may be joined together with the particles of the first layer at elevated temperature and pressure. A series of spaced apertures extends through the first and second layers to enable free draining of the surface covering. The lower surface of the covering includes spaced indentations to reduce the weight of the covering.

## Figures

Parameter	Value	Unit	Source
$\alpha$	0.001	cm <sup>2</sup> /s	Table 1
$\beta$	0.001	cm <sup>2</sup> /s	Table 1
$\gamma$	0.001	cm <sup>2</sup> /s	Table 1
$\delta$	0.001	cm <sup>2</sup> /s	Table 1
$\epsilon$	0.001	cm <sup>2</sup> /s	Table 1
$\zeta$	0.001	cm <sup>2</sup> /s	Table 1
$\eta$	0.001	cm <sup>2</sup> /s	Table 1
$\theta$	0.001	cm <sup>2</sup> /s	Table 1
$\iota$	0.001	cm <sup>2</sup> /s	Table 1
$\kappa$	0.001	cm <sup>2</sup> /s	Table 1
$\lambda$	0.001	cm <sup>2</sup> /s	Table 1
$\mu$	0.001	cm <sup>2</sup> /s	Table 1
$\nu$	0.001	cm <sup>2</sup> /s	Table 1
$\xi$	0.001	cm <sup>2</sup> /s	Table 1
$\omicron$	0.001	cm <sup>2</sup> /s	Table 1
$\pi$	0.001	cm <sup>2</sup> /s	Table 1
$\rho$	0.001	cm <sup>2</sup> /s	Table 1
$\sigma$	0.001	cm <sup>2</sup> /s	Table 1
$\tau$	0.001	cm <sup>2</sup> /s	Table 1
$\upsilon$	0.001	cm <sup>2</sup> /s	Table 1
$\phi$	0.001	cm <sup>2</sup> /s	Table 1
$\chi$	0.001	cm <sup>2</sup> /s	Table 1
$\psi$	0.001	cm <sup>2</sup> /s	Table 1
$\omega$	0.001	cm <sup>2</sup> /s	Table 1
$\varphi$	0.001	cm <sup>2</sup> /s	Table 1
$\vartheta$	0.001	cm <sup>2</sup> /s	Table 1
$\varpi$	0.001	cm <sup>2</sup> /s	Table 1
$\varsigma$	0.001	cm <sup>2</sup> /s	Table 1
$\eta$	0.001	cm <sup>2</sup> /s	Table 1
$\theta$	0.001	cm <sup>2</sup> /s	Table 1
$\iota$	0.001	cm <sup>2</sup> /s	Table 1
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$\upsilon$	0.001	cm <sup>2</sup> /s	Table 1
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